Solar System



PH3000 Series

On/Off grid hybrid Solar Inverter

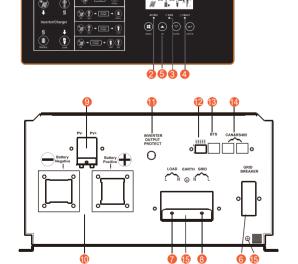
Feature:

- · On-grid inverter with energy storage
- Combining solar system, AC utility, and battery power source to supply continuous power
- Multiple operations: Basic Grid-Tie (On-Grid), Off-Grid, Grid-Tie with Battery Back-up also relognized as Grid-Interactive
- Pure sine wave output

Introduction:

This is a multi-function Energy Storage Inverter, combining functions of inverter, On-Grid, MPPT solar charger and battery charger to offer uninterruptible power support with portable size. Its comprehensive LCD display offers user-configurable and easy-accessible button operation such as battery charging current, AC/solar charger priority, and acceptable input voltage based on different applications.

LCD Display Information



9. PV input

12. Switch

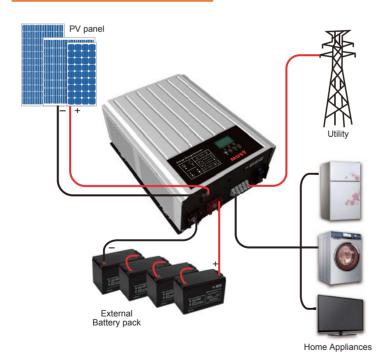
10. Battery input

11. Inverter output protect

- 1. LCD display
- 2. Status indicator
- 3. Charging indicator
- 4. Fault indicator
- Function buttons 13. BTS
- 6. Grid breaker 14. CAN&RS485 communication port
- 7. Load 15. Earth

8. Grid

Solar System Connection



Back Panel



Specification

MODEL		PH30-2K	PH30-3K	PH30-4K	
Default Battery System Voltage			48VDC		
	Rated capacity	2500VA	3750VA	5000VA	
	Rated output power	2000W	3000W	4000W	
	Rated output voltage and frequency		230Vac / 50Hz		
	Rated output current	8.7A	13A	17.4A	
	Output voltage precision		230Vac±1%		
	Output frequency precision		50Hz±0.1%		
		Off grid≤2%			
	THD	Grid discharge ≤3%			
	(Linear loads)	Grid charge ≤3%			
INVENTED	Dynamic response speed (0←→ 100%)		20ms		
INVERTER - OUTPUT	Power factor	Grid	discharge 99.9% & Grid charge 99.9	%	
001701		30 minutes @ 100% <load≤110%< td=""></load≤110%<>			
		1 minutes @ 100% <load≤125%< td=""><td>1 minutes @ 100%<load≤125%< td=""><td></td></load≤125%<></td></load≤125%<>	1 minutes @ 100% <load≤125%< td=""><td></td></load≤125%<>		
	Overload capability	30 seconds @ 125% <load≤150%< td=""></load≤150%<>			
			10 seconds @ 150% <load≤200%< td=""></load≤200%<>		
_			5 seconds @ load>200%		
			5 seconds @ short circuit		
	Grid / Off grid change time	< 10ms			
-	Output wave	sine wave			
-	Inverting efficiency 80% resistive loads	≥92%			
	Standby Power Consumption		< 2W		
	AC Input maximum of current	17.4A		34.8A	
AC INPUT	AC Input voltage	184Vac ~ 253Vac	01.071		
70 111 01	AC Input frequency		47.5Hz ~ 51.5Hz		
	Rated input voltage		48VDC		
-	Allowed input DC voltage range		40VDC ~ 62VDC		
BATTERY	Low voltage alarm		40VDC ~ 62VDC		
	High voltage alarm	60VDC			
201.10	PV Open Circuit Voltage		145VDC		
SOLAR CHARGER	Max PV Input Power	2600W 3200W	1	3200W	
& AC CHARGER	Max Solar Charging Current	45A	5200W 60A	320000	
	Max AC Charging Current	45A	60A	80A	
	LED indication	Systematic operation, indication of charge and discharge, in			
DIODI AV	LCD display	· · · · · · · · · · · · · · · · · · ·	output voltage, output current, grid voltage, grid current, voltage of storage battery, load power, chart of capac		
DISPLAY &	LCD display	Input LV protection			
PROTECTION			Input OV protection		
FUNCTION	Protection Function	Output overload protection			
		Output Short Circuit Protection			
MEGUANIGAL	Mounting		Wall mounted		
MECHANICAL SPECIFICATIONS	W*H* D(mm)/Net Weight(kg)	337*462*183mm/25kg	337*462*183mm/29.5kg	270*462*402****/25!	
J. LOII ICATIONS	Communication terminal	337 402 103HHI/25Kg	337*462*183mm/25kg 337*462*183mm/29.5kg 370*462*183mm/35kg RS485 / CAN bus		
-			-25°C ~ +50°C		
OTHER	Operation Temperature Range		-25 C ~ +50 C Indoor(IP20)		
	Environmental Protection Rating		0 ~ 90% relative humidity(non-condensing)		
	Ambient humidity	0~	0 ~ 90% relative numbers/(non-condensing) ≤3000m		
	Altitude		≥3000m		

^{*} Product specifications are subject to change without further notice.

Approximate Back-up Time Table

Model	Load (W)	Backup Time@48V 100Ah(min)	Backup Time@48V 200Ah(min)
	200	1270	2541
2KW	1000	208	488
	2000	82	203
	300	847	1694
3KW	1500	123	315
	3000	50	123
	400	614	1281
4KW	2000	89	205
	4000	38	89

-17--18-